

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324730

Luminaire Tested: **GAN-SA6C-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28962 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

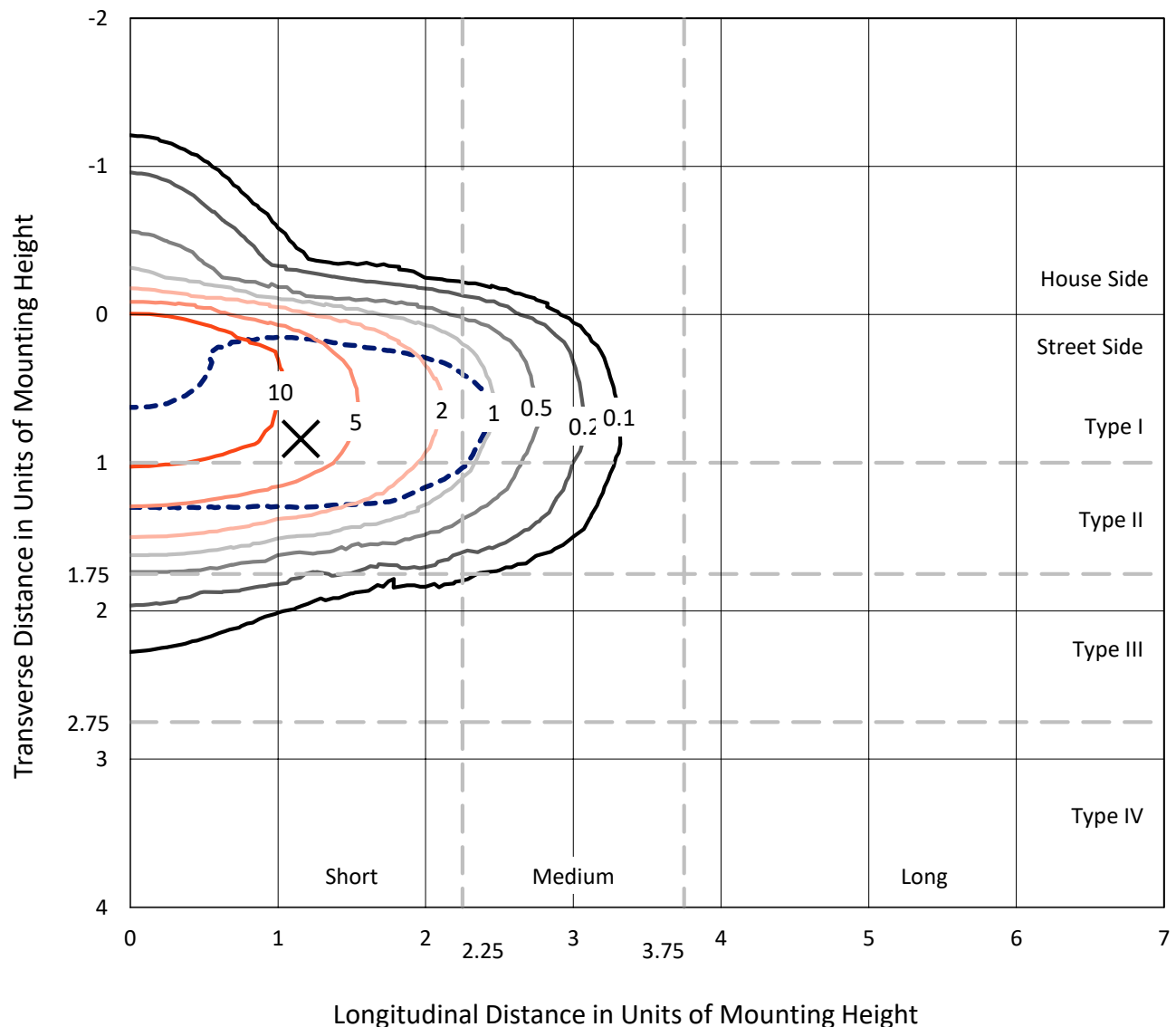
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

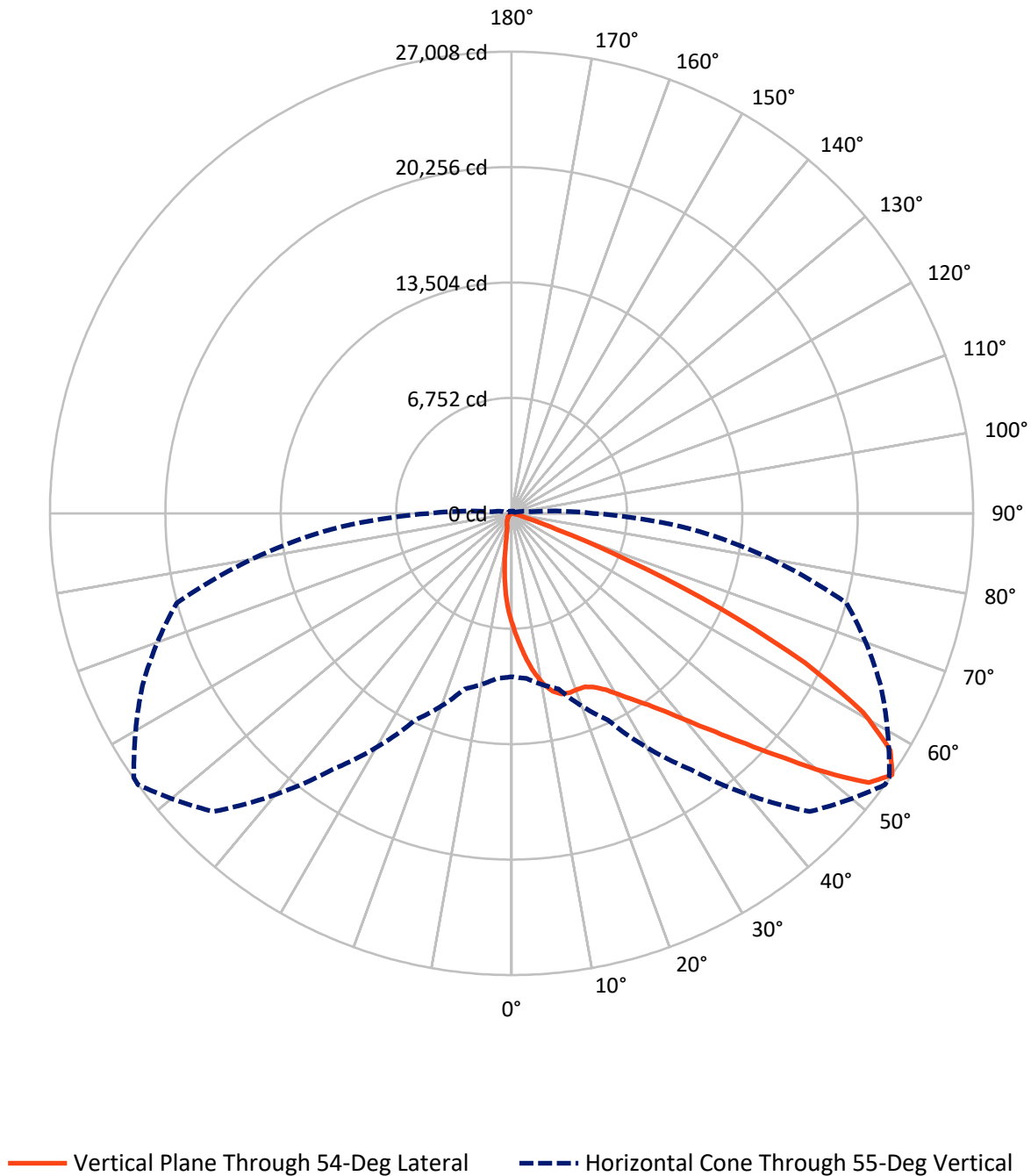
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.0	0.0	1445.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27517.0	0.0	27517.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	28962.0	0.0	28962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.3	2.1
10°-20°	1638.2	5.7
20°-30°	2796.9	9.7
30°-40°	4488.5	15.5
40°-50°	7172.7	24.8
50°-60°	7685.7	26.5
60°-70°	3946.1	13.6
70°-80°	597.7	2.1
80°-90°	38.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28962.0	100.0
0°-180°	28962.0	100.0

Coefficient of Utilization



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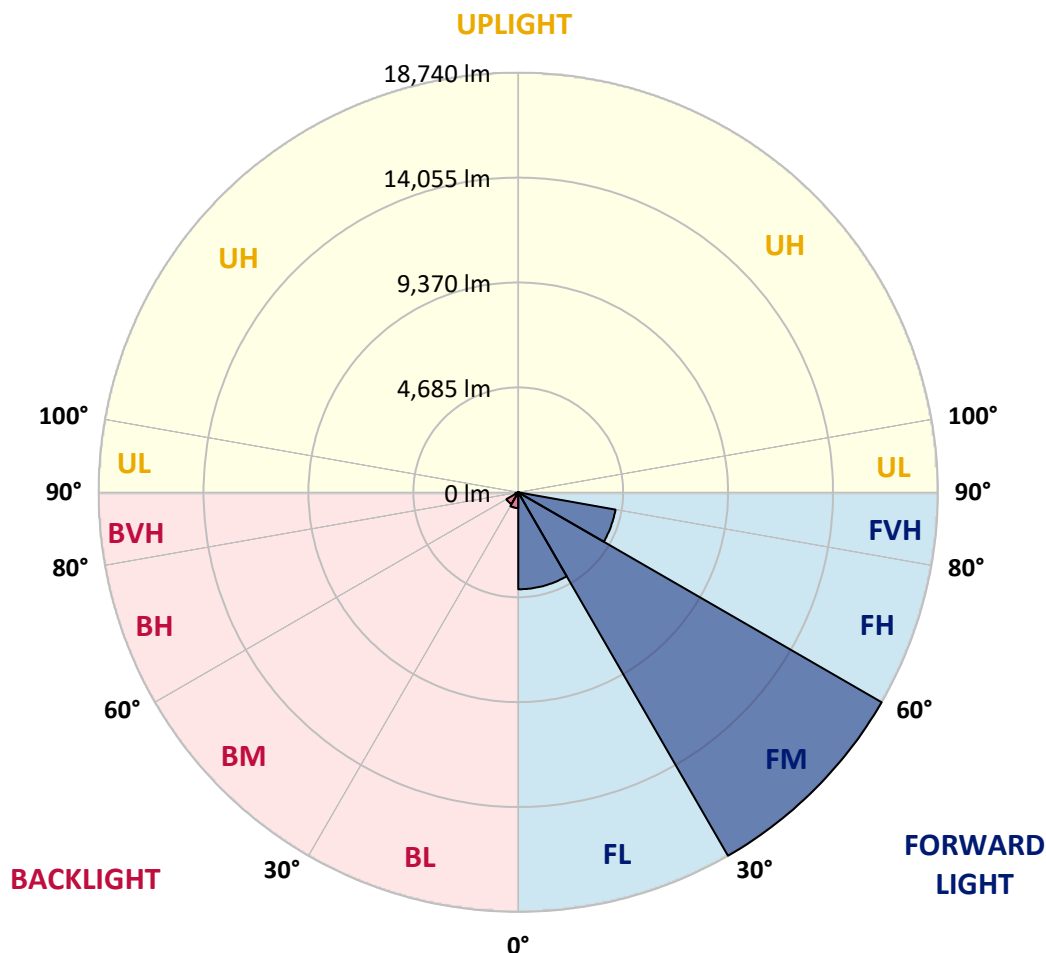
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4329.3	14.9			
FM	(30°-60°)	18739.7	64.7			
FH	(60°-80°)	4410.6	15.2			G2/5000
FVH	(80°-90°)	37.4	0.1			G1/100
BL	(0°-30°)	703.0	2.4	B2/1000		
BM	(30°-60°)	607.2	2.1	B1/1000		
BH	(60°-80°)	133.2	0.5	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	8139.8	8018.5	8022.2	7967.2	7765.8	7608.2	7444.4	7405.6	7150.5	6882.8	6625.2
5°	9546.9	9458.1	9436.8	9330.5	9050.3	8753.9	8436.2	8362.4	7863.4	7315.6	6776.5
7.5°	10269.8	10271.1	10253.5	10214.8	10039.7	9752.0	9364.3	9286.7	8607.6	7785.8	6934.1
10°	10059.7	10107.2	10204.8	10333.6	10467.4	10431.2	10139.7	10069.7	9331.8	8283.6	7109.2
12.5°	9569.4	9575.6	9684.5	9895.8	10281.1	10676.3	10681.3	10657.5	10023.4	8803.9	7301.8
15°	9325.5	9349.3	9389.3	9525.6	9890.8	10523.7	10976.5	11010.2	10657.5	9356.8	7506.9
17.5°	9485.6	9519.4	9485.6	9501.9	9713.2	10282.3	11027.8	11114.1	11211.6	9903.3	7700.8
20°	9919.6	9950.9	9890.8	9824.5	9865.8	10212.3	10991.5	11107.8	11645.6	10388.6	7863.4
22.5°	10504.9	10517.5	10426.1	10317.3	10287.3	10449.9	11021.5	11141.6	11993.3	10827.6	7965.9
25°	11149.1	11160.3	11046.5	10921.4	10850.1	10916.4	11267.9	11357.9	12299.8	11246.6	8024.7
27.5°	11850.7	11860.7	11718.2	11564.3	11481.8	11484.3	11674.4	11770.7	12626.2	11724.4	8072.3
30°	12592.4	12587.4	12456.1	12242.2	12137.2	12134.7	12259.7	12357.3	13099.0	12337.3	8137.3
32.5°	13425.4	13415.4	13229.1	12963.9	12845.1	12862.6	12973.9	13030.2	13685.6	12990.2	8253.6
35°	14522.3	14493.5	14212.1	13883.2	13664.3	13658.1	13751.9	13796.9	14433.5	13780.6	8447.5
37.5°	15945.7	15919.4	15537.9	15060.1	14752.5	14637.4	14748.7	14806.2	15500.4	14795.0	8758.9
40°	17349.0	17322.7	17096.3	16658.6	16184.5	15908.1	15995.7	16057.0	16832.4	16025.7	9151.6
42.5°	18317.1	18339.6	18418.4	18454.6	18010.6	17430.3	17470.3	17534.1	18232.0	17341.5	9600.7
45°	18572.2	18621.0	19066.2	19940.5	20106.9	19654.1	19235.1	19270.1	19654.1	18657.3	10049.7
47.5°	17805.5	17895.6	18754.8	20380.8	21789.1	22109.3	21316.3	21270.0	21018.6	19721.6	10368.6
50°	16063.2	16145.8	17258.9	19664.1	22299.4	24453.2	23810.3	23674.0	22215.6	20358.3	10481.2
52.5°	13541.7	13641.8	14546.1	17407.8	21337.6	25498.8	26171.7	26057.9	23093.6	20408.3	10499.9
55°	9563.1	9684.5	10641.3	13341.6	18289.5	24667.0	27008.4	26974.7	23822.8	20275.7	10540.0
57.5°	5374.4	5462.0	6493.8	8552.5	13395.4	21485.2	26134.2	26358.0	24263.1	20045.6	10600.0
60°	2386.4	2410.2	2944.2	4257.5	7842.1	16419.7	23631.4	24009.2	23885.3	19737.9	10701.3
62.5°	1323.3	1303.3	1303.3	1769.8	3408.3	10164.7	19270.1	19894.2	22273.1	19373.9	10706.3
65°	1036.9	1018.1	964.3	971.8	1298.3	4511.4	13344.1	14453.5	19211.3	18307.0	10346.1
67.5°	879.3	863.0	809.2	788.0	806.7	1488.4	7331.8	8483.8	14577.3	15534.2	8961.5
70°	742.9	731.7	704.2	677.9	630.4	735.4	2805.4	3588.4	8982.8	10333.6	6117.4
72.5°	597.9	592.8	602.9	580.3	522.8	490.3	959.3	1161.9	4034.9	4611.5	2520.2
75°	515.3	512.8	517.8	495.3	430.3	341.5	487.8	532.8	1138.2	1128.2	510.3
77.5°	335.2	338.9	429.0	419.0	370.2	227.6	252.6	272.7	345.2	258.9	155.1
80°	213.9	211.4	217.6	347.7	332.7	173.9	126.3	132.6	166.3	127.6	75.0
82.5°	130.1	127.6	142.6	162.6	167.6	121.3	77.5	78.8	103.8	82.5	40.0
85°	11.3	15.0	86.3	80.0	57.5	37.5	37.5	40.0	55.0	48.8	22.5
87.5°	0.0	0.0	15.0	22.5	12.5	13.8	13.8	15.0	21.3	21.3	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6491.3	6361.3	6098.6	5845.9	5632.1	5425.7	5190.6	4957.9	4849.1	4805.3	4760.3
5°	6502.6	6234.9	5693.4	5148.0	4582.7	4073.7	3639.6	3194.4	2971.8	2874.2	2829.2
7.5°	6517.6	6109.9	5234.3	4318.8	3408.3	2717.9	2115.0	1727.3	1559.7	1533.4	1468.4
10°	6520.1	5958.5	4701.5	3403.3	2285.1	1638.5	1260.7	1060.6	986.8	974.3	953.1
12.5°	6525.1	5779.7	4109.9	2520.2	1523.4	1095.6	911.8	845.5	825.5	824.2	824.2
15°	6540.1	5592.0	3495.8	1816.1	1094.4	868.0	800.5	774.2	766.7	770.5	769.2
17.5°	6540.1	5370.7	2893.0	1353.3	884.3	780.5	742.9	725.4	722.9	726.7	727.9
20°	6492.6	5101.8	2340.1	1053.1	784.2	724.2	690.4	674.1	667.9	670.4	671.6
22.5°	6378.8	4771.6	1889.9	871.8	717.9	672.9	636.6	611.6	601.6	602.9	602.9
25°	6201.2	4380.1	1478.4	754.2	664.1	617.9	575.3	546.6	540.3	539.1	541.6
27.5°	5973.5	3947.3	1176.9	664.1	600.4	556.6	514.1	490.3	485.3	486.5	487.8
30°	5749.6	3498.3	928.0	587.8	529.1	487.8	455.3	444.0	444.0	447.8	449.0
32.5°	5544.5	3066.8	734.2	521.6	465.3	427.8	409.0	407.7	414.0	416.5	417.7
35°	5368.2	2667.8	607.9	470.3	415.2	382.7	376.5	381.5	389.0	394.0	395.2
37.5°	5243.1	2311.4	531.6	427.8	376.5	350.2	349.0	359.0	369.0	380.2	382.7
40°	5190.6	2009.9	479.0	390.2	345.2	325.2	321.4	335.2	354.0	370.2	372.7
42.5°	5146.8	1763.5	434.0	354.0	320.2	291.4	290.2	307.7	330.2	346.5	350.2
45°	5109.3	1565.9	392.7	315.2	287.7	250.1	253.9	276.4	293.9	311.4	315.2
47.5°	5031.7	1403.3	347.7	273.9	237.6	213.9	221.4	241.4	255.2	281.4	285.2
50°	4892.9	1270.7	301.4	223.9	193.9	185.1	196.4	210.1	227.6	250.1	252.6
52.5°	4799.1	1170.7	261.4	187.6	160.1	162.6	173.9	178.9	188.9	197.6	195.1
55°	4745.3	1115.7	228.9	162.6	136.3	143.8	146.3	140.1	135.1	126.3	122.6
57.5°	4739.0	1065.6	203.9	141.3	120.1	123.8	115.1	93.8	76.3	66.3	63.8
60°	4729.0	1004.3	183.9	118.8	106.3	101.3	82.5	51.3	36.3	33.8	33.8
62.5°	4620.2	909.3	168.8	100.1	90.1	76.3	47.5	23.8	20.0	21.3	21.3
65°	4273.8	776.7	153.8	81.3	71.3	55.0	23.8	13.8	7.5	8.8	8.8
67.5°	3633.4	619.1	137.6	62.5	53.8	35.0	13.8	6.3	0.0	0.0	0.0
70°	2432.7	384.0	116.3	43.8	35.0	21.3	10.0	1.3	0.0	0.0	0.0
72.5°	933.1	207.6	93.8	26.3	22.5	15.0	6.3	0.0	0.0	0.0	0.0
75°	210.1	136.3	65.0	18.8	16.3	10.0	2.5	0.0	0.0	0.0	0.0
77.5°	80.0	98.8	37.5	12.5	11.3	6.3	0.0	0.0	0.0	0.0	0.0
80°	38.8	58.8	17.5	7.5	6.3	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	22.5	7.5	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	11.3	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)